

# I CLAIM

1. A method for combining a metal racket frame with a hollow grip comprising:

Step 1: Preparing in advance a metal racket frame, a hollow grip, a matched mold consisting of an upper mold and a lower mold, and a proper amount of liquid resin, said metal racket frame bent in advance by a mold, said metal racket frame having two free ends combined symmetrically, a preset gap formed between said two free ends, said two free ends having their openings sealed beforehand:

Step 2: Said metal racket frame having said two free ends fitted in the upper end of the hollow of said hollow grip, said metal racket frame and said hollow grip having their combined part formed with an overlapped section with a preset length:

Step 3: Said metal racket frame and said hollow grip having said overlapped section placed a round hole consisting of an upper cavity in an upper mold and a lower cavity of a lower mold forming said matched mold, the lower sections of the upper and the lower cavity of said upper and said lower mold of said matched mold forming the round hole with an inner diameter as large as the outer diameter of said hollow grip when combined together, the upper sections of said upper and said lower cavity of said upper and said lower mold of said matched mold shaped as a V for receiving two ramified sections

of said metal racket frame, said V-shaped section of said  
cavities of said upper and said lower mold of said  
matched mold having the upper ends closed, said upper  
and said lower cavity of said upper and said lower mold  
5 of said matched mold formed with a triangular sealing  
section between said two ramified sections of said metal  
racket frame:

Step 4: Said upper and said lower mold of said  
matched mold closed and combined together:

10 Step 5: Injecting a proper amount of said liquid  
resin in the interior of said hollow grip, said liquid  
resin filling up said gap between said two free ends and  
reaching said triangular sealing portion, said liquid  
resin also filling up the gap between the outer  
15 circumferential sides of said metal racket frame and the  
inner walls of said upper and said lower cavity: and

Step 6: Opening said matched mold after said  
liquid resin is solidified, removing said metal racket  
frame together with said hollow grip from said matched  
20 mold, thus finishing said metal racket frame and said  
hollow grip combined together integrally, firmly and  
smoothly.

2. The method for combining a metal racket frame  
with a hollow grip as claimed in Claim 1, wherein after  
25 said matched molds are combined together, said matched  
molds and said metal racket frame together with said  
hollow grip are turned upside down, letting said hollow

grip face upward to enable said liquid resin to flow downward after injected.

3. The method for combining a metal racket frame with a hollow grip as claimed in Claim 1, wherein the  
5 upper edge of said hollow grip and the gap between the outer circumferential sides of said metal racket frame and the inner walls of said upper and said lower cavity of said upper and said lower mold of said matched mold are completely filled with said liquid resin.

10 4. The method for combining a metal racket frame with a hollow grip as claimed in Claim 1, wherein said two free ends of said metal racket frame respectively have the opening sealed in advance by resin or adhesive tape.

15

20

25